

corr. to WO 94/14729

Requested document: [EP0675863 click here to view the pdf document](#)**Anti-oxidation protection of carbon-based materials**

Patent Number: ☐ [US5660880](#)

Publication date: 1997-08-26

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Requested Patent: ☐ [EP0675863](#) (WO9414729), [B1](#)

Application Number: US19950464608 19950619

Priority Number (s): WO1993FR01256 19931216; RU19920012719 19921218

IPC Classification: C23C16/00; C04B41/87

EC Classification: [C04B41/50R56D](#), [C04B41/52](#)

Equivalents: CA2151948, DE69305094D, DE69305094T, ES2094636T, ☐ [RU2082694](#), ☐ [WO9414729](#)

Abstract

PCT No. PCT/FR93/01256 Sec. 371 Date Jun. 19, 1995 Sec. 102(e) Date Jun. 19, 1995 PCT Filed Dec. 16, 1993 PCT Pub. No. WO94/14729 PCT Pub. Date Jul. 7, 1994 The invention relates to a process for obtaining refractory antioxidative coatings on carbon-based materials and articles operating in an oxidizing environment at temperatures of up to 2000 DEG C. under thermal cycling and high-speed gas stream conditions. The process comprises the heat-treatment of the surface to be protected in silicon vapors and is characterized in that prior to said silicon vapor treatment, the surface to be protected is covered with a layer of the composition consisting of HfB₂+C powdery filler and a carboxymethyl cellulose-based binder, followed by drying under normal conditions till it is completely dry. The process is intended for oxidation protection of structural elements and articles in metallurgy, aircraft, and other industries.

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